To: Daly, Eric[Daly.Eric@epa.gov]
From: Benton, Tim
Sent: Fri 1/6/2017 7:24:08 PM
Subject: FW: Path Forward for RFP Nos. 391, 403, and 416

Eric,
Man, my apologies with this as the most important person to copy to the email (you) was left off the list! I sent it out yesterday afternoon but have not received a response back from the laboratory. I will follow up with them this afternoon.

Thanks,

Tim

From: Benton, Tim
Sent: Thursday, January 05, 2017 4:50 PM
To: Carin.Ferris@pacelabs.com; Richard.Kinney@pacelabs.com
Cc: Lisichenko, Peter; Benton, Tim; Conway, R. Chad; Croskey, Robert; Nguyen, Lyndsey; Sumbaly, Smita; Nwosu, Bernard; Kappelman, David; Pellegrino, Carl; Justin.Hensley@pacelabs.com
Subject: Path Forward for RFP Nos. 391, 403, and 416
Importance: High

Carin/Richard,
Weston, in consultation with our client, wanted to confirm our path forward with all samples to be analyzed under RFP Nos. 391, 403, and 416. This summary is based on the conference call conducted on December 14, 2016.

General Comments

1. **Additional Radionuclides Added to Library**

   a.) On November 17, 2016, Weston requested, through Richard Kinney, to add **Th-228, Th-234, Pa-234m** to the gamma spec library. Richard confirmed via email that day but please verify this is going to be part of the data packages moving forward for all samples associated with RFP Nos. 391, 403, and 416.

2. **Future Chain of Custody Records**

   a.) We need to establish a uniformed naming convention that we apply to the requested analysis field on all COCs moving forward. The most recent samples submitted were listed on the COC as "run gamma spec first before sample prep as per phone conference". We would like for a more conventional analysis name to be created for these RFPs so that everyone on the laboratory end knows that these samples need to be handled differently than the normal procedures call for. **Please provide the requested analysis name that you can ensure will be communicated to all of your laboratory personnel and we will use that moving forward for all of our COCs**.
   b.) We will also be listing the sample matrix moving forward to "Soil/Rock/Slag" to re-emphasize the point that the entire sample should be analyzed and no sieving of the course material is to be conducted.

RFP-Specific Comments:

1. **NFB Site - Area 1, 5 and 7 Soil Samples (Under RFP No. 403)**

a.) These are the sample results we received in November 2016 and were the reason the conference call was conducted on December 14, 2016.
b.) Weston requested that these samples be shipped back to the NFB Site once we got into 2017. We will provide the appropriate shipping address once we receive a response back in terms of when these samples are planned to be shipped out. The sooner the better to get this action item completed. **Please provide a shipping date as soon as possible**.

2. **NFB Site – Low-level Concentration Samples and the Post Excavation Samples from Area 5 (Under RFP No. 403)**

   a.) We shipped out the low-level concentration samples and the post excavation samples from Area 5 on December 21, 2016.
   b.) The following procedures should be performed for all of these samples:
      1.) There should only be (1) 16 ounce Jar for each sample now.

2.) We are requesting that the laboratory run **our jar** for gamma spec initially prior to any sample preparation.
3.) Chain of Custody reads "Run Gamma Spec prior to sample preparation. Per our Conference Call".
4.) We understand that the geometry is slightly different from our jar to Pace jar. In the future, we will be using Pace jars provided.
5.) The entire contents of that container will then be pulverized and homogenized.
6.) **No rocks should be removed.** We do not see the reason for the material going through a sieve. It may be part of the laboratory procedure but it does not appear to serve a purpose for our needs. As discussed on the December 14, 2016 conference call, by removing the rock/slag it does not represent our sample matrix properly. If the material is pulverized and homogenized, that should be sufficient.
7.) From that jar, appropriate sample amount should be transferred to another container for 21 day in-growth and then gamma spec. analysis.
8.) Finally, the alpha spec aliquot will be taken from this pulverized jar content for analysis.

3. HTC Site (Under RFP No. 391) - Analysis was on Hold/Please Analyze

a.) We put the analysis on hold due to the issues we were having.
b.) According to Richard Kinney, the three HTC sample jars were mixed and dried already.
c.) The following procedures should be performed for all of these samples:
1.) The samples should be pulverized but not put through a sieve and no rock removed when homogenizing the sample.
2.) Then sample amounts can be obtained for 21 day in-growth gamma spec and alpha spec. analyses.
3.) We will not have analysis that will be comparable to our HpGe results since three jars have been combined already.

4. **738 UMR Site (Under RFP No. 416) - Analysis was on Hold/Please Analyze**

a.) We put the analysis on hold due to the issues we were having.
b.) The following procedures should be performed for all of these samples:
1.) The samples should be run from **our jar** labeled "Gamma Spec Modified" for gamma spec initially prior to any sample preparation.
2.) The one jar labeled "Gamma Spec Modified" must be used for the analysis if there is enough material. This will be somewhat comparable to our HpGe results.
3.) The entire contents of that container will then be pulverized and homogenized.
4.) **No rocks should be removed.** We do not see the reason for the material going through a sieve. It may be part of the laboratory procedure but it does not appear to serve a purpose for our needs. As discussed on the December 14, 2016 conference call, by removing the rock/slag it does not represent our sample matrix properly. If the material is pulverized and homogenized, that should be sufficient.
5.) From that jar, appropriate sample amount should be transfer to another container for 21 day in-growth and then gamma spec. analyses.
6.) Finally, the alpha spec aliquot will be taken from this pulverized jar content for analysis.

I know that there is a lot of information contained within this summary but it is important that we are all on the same page as we move forward with these projects. Weston appreciates Pace's continued support of these high-profile projects and the willingness to work with us to meet all of our client's needs! If you could please provide the answers to the questions posed above and also confirm, via mail, that the direction forward is clearly understood it would be much appreciated! If there any questions or concerns please let me know.

Thanks,

Timothy Benton, CHMM
RST 3 Operations Lead/
Deputy Program Manager
Weston Solutions, Inc.
1090 King George Post Road
Suite 201
Edison, New Jersey 08837
Office Phone: (732) 585-4425
Cell Phone: (908) 565-2973
Fax: (732) 225-7037